

# Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 4.9 Stream Chagrin River Sample # 1  
 Location Daniels Park  
 County LAKE Township/City Willoughby Date 9/21/07 Time 12:00 PM  
 Monitoring Group  
 Or Individual Grant Elementary No. of Participants 7

## Riffle Structure

Width of Riffle \_\_\_\_\_  
 Water Depth \_\_\_\_\_  
 Water Temp \_\_\_\_°C or \_\_\_\_°F

## Chemical Analysis

Dissolved O<sub>2</sub> \_\_\_\_\_  
 Acidity (pH) \_\_\_\_\_  
 Salinity (Cl) \_\_\_\_\_  
 Ammonia \_\_\_\_\_

Coliform sample taken?

Yes ☐ No ☐ # \_\_\_\_\_

Results \_\_\_\_\_

Bed Composition of Riffle (must add up to 100%)

SILT ☐ SAND ☐ GRAVEL ☐ COBBLES ☐ BOULDERS ☐  
 (1/4"-2") (2"-10") (>10")

## Descriptions of Water Conditions:

Clear, no odor

## Special Notes:

## MACROINVERTEBRATE TALLY

## Estimated Count

A= 1 to 9

B= 10 to 99

C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	<u>A</u>	Damselfly Nymphs	<u>—</u>	Blackfly Larvae	<u>A</u>
Mayfly Nymphs	<u>A</u>	Dragonfly Nymphs	<u>—</u>	Aquatic Worms	<u>A</u>
Stonefly Nymphs	<u>—</u>	Cranefly Larvae	<u>A</u>	Midge Larvae	<u>A</u>
Dobsonfly Larvae	<u>B</u>	Beetle Larvae	<u>A</u>	Pouch Snails	<u>—</u>
Caddisfly Larvae	<u>C</u>	Crayfish	<u>—</u>	Leeches	<u>—</u>
Riffle Beetle Adult	<u>A</u>	Scuds	<u>—</u>		
Gill Snails — (open right)	<u>—</u>	Clams	<u>—</u>		
		Sow Bugs	<u>—</u>		
NUMBER OF TAXA	<u>5</u>	NUMBER OF TAXA	<u>2</u>	NUMBER OF TAXA	<u>3</u>
(TIMES) INDEX VALUE	<u>15</u>	(TIMES) INDEX VALUE	<u>4</u>	(TIMES) INDEX VALUE	<u>3</u>
3		2		1	

Cumulative  
Index  
Value

21

## Stream Quality Assessment

Excellent (> 22)

Fair (11-16)

Good (17-22)

Poor (<11)

Please Send this form to:

Lake County Soil and Water  
 Conservation District  
 125 East Erie St.  
 Painesville OH 44077

# Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 4.9 Stream Chagrin River Sample # 1  
 Location Daniels Park  
 County LAKE Township/City Willoughby Date 9/21/07 Time 11:00 AM  
 Monitoring Group  
 Or Individual Grant Elementary No. of Participants 6

## Riffle Structure

Width of Riffle \_\_\_\_\_  
 Water Depth \_\_\_\_\_  
 Water Temp \_\_\_\_°C or \_\_\_\_°F

## Chemical Analysis

Dissolved O<sub>2</sub> \_\_\_\_\_  
 Acidity (pH) \_\_\_\_\_  
 Salinity (Cl) \_\_\_\_\_  
 Ammonia \_\_\_\_\_

Coliform sample taken?

Yes ☐ No ☐ # \_\_\_\_\_

Results \_\_\_\_\_

Bed Composition of Riffle (must add up to 100%)

SILT ☐ SAND ☐ GRAVEL ☐ COBBLES ☐ BOULDERS ☐  
 (1/4"-2") (2"-10") (>10")

## Descriptions of Water Conditions:

## Special Notes:

## MACROINVERTEBRATE TALLY

## Estimated Count

A= 1 to 9

B= 10 to 99

C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	B	Damselfly Nymphs	—	Blackfly Larvae	—
Mayfly Nymphs	A	Dragonfly Nymphs	—	Aquatic Worms	A
Stonefly Nymphs	—	Cranefly Larvae	—	Midge Larvae	A
Dobsonfly Larvae	A	Beetle Larvae	A	Pouch Snails	—
Caddisfly Larvae	B	Crayfish	—	Leeches	—
Riffle Beetle Adult	A	Scuds	—		
Gill Snails — (open right)	—	Clams	—		
		Sow Bugs	—		
NUMBER OF TAXA	5	NUMBER OF TAXA	1	NUMBER OF TAXA	2
(TIMES) INDEX VALUE	15	(TIMES) INDEX VALUE	2	(TIMES) INDEX VALUE	2
3		2		1	

Cumulative  
Index  
Value

19

## Stream Quality Assessment

Excellent (> 22)

Fair (11-16)

Good (17-22)

Poor (<11)

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 Conservation District  
 125 East Erie St.  
 Painesville OH 44077

# Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 4.9 Stream Chagrin River Sample # 1  
 Location Daniel's Park  
 County LAKE Township/City Willoughby Date 9/21/07 Time 10:00 AM  
 Monitoring Group  
 Or Individual Grant Elementary No. of Participants 6

## Riffle Structure

Width of Riffle \_\_\_\_\_  
 Water Depth \_\_\_\_\_  
 Water Temp \_\_\_\_\_°C or 66°F

## Chemical Analysis

Dissolved O<sub>2</sub> \_\_\_\_\_  
 Acidity (pH) \_\_\_\_\_  
 Salinity (Cl) \_\_\_\_\_  
 Ammonia \_\_\_\_\_  
 Coliform sample taken? Yes ☐ No ☐ # \_\_\_\_\_  
 Results \_\_\_\_\_  
Chlorine 0.1 ppm

Bed Composition of Riffle (must add up to 100%)

SILT ☐ SAND ☐ GRAVEL ☐ COBBLES ☐ BOULDERS ☐  
 (1/4"-2") (2"-10") (>10")

## Descriptions of Water Conditions:

Clear, no odors

## Special Notes:

## MACROINVERTEBRATE TALLY

## Estimated Count

A= 1 to 9  
 B= 10 to 99  
 C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	<u>A</u>	Damselfly Nymphs	<u>A</u>	Blackfly Larvae	<u>A</u>
Mayfly Nymphs	<u>A</u>	Dragonfly Nymphs	<u>—</u>	Aquatic Worms	<u>A</u>
Stonefly Nymphs	<u>—</u>	Cranefly Larvae	<u>A</u>	Midge Larvae	<u>A</u>
Dobsonfly Larvae	<u>A</u>	Beetle Larvae	<u>A</u>	Pouch Snails	<u>—</u>
Caddisfly Larvae	<u>B</u>	Crayfish	<u>—</u>	Leeches	<u>—</u>
Riffle Beetle Adult	<u>A</u>	Scuds	<u>—</u>		
Gill Snails — (open right)	<u>—</u>	Clams	<u>—</u>		
		Sow Bugs	<u>—</u>		
NUMBER OF TAXA	<u>5</u>	NUMBER OF TAXA	<u>3</u>	NUMBER OF TAXA	<u>3</u>
(TIMES) INDEX VALUE	<u>15</u>	(TIMES) INDEX VALUE	<u>6</u>	(TIMES) INDEX VALUE	<u>3</u>
3		2		1	

Cumulative  
 Index  
 Value

24

## Stream Quality Assessment

Excellent (> 22)

Fair (11-16)

Good (17-22)

Poor (<11)

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 Conservation District  
 125 East Erie St.  
 Painesville OH 44077

# Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 4.9 Stream Chagrin River Sample # 1

Location Dundee

County Lake Township/City Wadsworth Date 9/21/07 Time 10:00

Monitoring Group

Or Individual Grand Slam Mr. Maglosky No. of Participants 5

## Riffle Structure

Width of Riffle \_\_\_\_\_

Water Depth \_\_\_\_\_

Water Temp \_\_\_\_\_°C or 68°F

## Chemical Analysis

Dissolved O<sub>2</sub> \_\_\_\_\_

Acidity (pH) 8

Salinity (Cl) \_\_\_\_\_

Ammonia \_\_\_\_\_

Coliform sample taken?

Yes ☐ No ☐ # \_\_\_\_\_

Results \_\_\_\_\_

Bed Composition of Riffle (must add up to 100%)

SILT ☐ SAND ☐ GRAVEL ☐ COBBLES ☐ BOULDERS ☐  
(1/4"-2") (2"-10") (>10")

Descriptions of Water Conditions:

Special Notes:

## MACROINVERTEBRATE TALLY

Estimated Count

A= 1 to 9

B= 10 to 99

C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	<u>A</u>	Damselfly Nymphs	<u>—</u>	Blackfly Larvae	<u>A</u>
Mayfly Nymphs	<u>B</u>	Dragonfly Nymphs	<u>—</u>	Aquatic Worms	<u>A</u>
Stonefly Nymphs	<u>—</u>	Crane fly Larvae	<u>—</u>	Midge Larvae	<u>B</u>
Dobsonfly Larvae	<u>—</u>	Beetle Larvae	<u>A</u>	Pouch Snails	<u>—</u>
Caddisfly Larvae	<u>C</u>	Crayfish	<u>—</u>	Leeches	<u>—</u>
Riffle Beetle Adult	<u>A</u>	Scuds	<u>—</u>		
Gill Snails — (open right)	<u>—</u>	Clams	<u>A</u>		
		Sow Bugs	<u>A</u>		
NUMBER OF TAXA	<u>4</u>	NUMBER OF TAXA	<u>3</u>	NUMBER OF TAXA	<u>3</u>
(TIMES) INDEX VALUE	<u>12</u>	(TIMES) INDEX VALUE	<u>6</u>	(TIMES) INDEX VALUE	<u>3</u>
3		2		1	

Cumulative Index Value

21

Stream Quality Assessment

Excellent (> 22)

Good (17-22)

Fair (11-16)

Poor (<11)

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Lake County Soil and Water Conservation District  
125 East Erie St.  
Painesville OH 44077

# Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 4.9 Stream Chagrin River Sample #         
 Location Daniel's Park  
 County Lake Township/City Willoughby Date 9/21/07 Time 14:00  
 Monitoring Group         
 Or Individual Grand Alton Area Group No. of Participants 5

## Riffle Structure

Width of Riffle         
 Water Depth         
 Water Temp        °C or 75 °F

## Chemical Analysis

Dissolved O<sub>2</sub>         
 Acidity (pH) 8  
 Salinity (Cl)         
 Ammonia       

Coliform sample taken?

Yes ☐ No ☐ #       

Results       

Bed Composition of Riffle (must add up to 100%)

SILT ☐ SAND ☐ GRAVEL ☐ COBBLES ☐ BOULDERS ☐  
 (1/4"-2") (2"-10") (>10")

Descriptions of Water Conditions:

Special Notes:

## MACROINVERTEBRATE TALLY

Estimated Count A= 1 to 9  
 B= 10 to 99  
 C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	A	Damselfly Nymphs	—	Blackfly Larvae	—
Mayfly Nymphs	B	Dragonfly Nymphs	—	Aquatic Worms	—
Stonefly Nymphs	—	Crane fly Larvae	A	Midge Larvae	A
Dobsonfly Larvae	A	Beetle Larvae	A	Pouch Snails	—
Caddisfly Larvae	C	Crayfish	—	Leeches	—
Riffle Beetle Adult	A	Scuds	—		
Gill Snails — (open right)	—	Clams	—		
		Sow Bugs	—		
NUMBER OF TAXA	5	NUMBER OF TAXA	2	NUMBER OF TAXA	1
(TIMES) INDEX VALUE	15	(TIMES) INDEX VALUE	4	(TIMES) INDEX VALUE	1
3		2		1	

Cumulative  
 Index  
 Value

20

Stream Quality Assessment

Excellent (> 22)

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Fair (11-16)

Poor (<11)

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 Conservation District  
 125 East Erie St.  
 Painesville OH 44077

# Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 4.9 Stream Chagrin Sample #           
 Location Danville creek  
 County Lake Township/City Willoughby Date 1/31/02 Time 10:00  
 Monitoring Group           
 Or Individual Grant Elam, Sukik No. of Participants 5

## Riffle Structure

Width of Riffle           
 Water Depth           
 Water Temp         °C or         °F

## Chemical Analysis

Dissolved O<sub>2</sub>           
 Acidity (pH) 8  
 Salinity (Cl)           
 Ammonia         

Coliform sample taken?

Yes ☐ No ☐ #         

Results         

Bed Composition of Riffle (must add up to 100%)

SILT ☐ SAND ☐ GRAVEL ☐ COBBLES ☐ BOULDERS ☐  
 (1/4"-2") (2"-10") (>10")

Descriptions of Water Conditions:

Special Notes:

## MACROINVERTEBRATE TALLY

Estimated Count

A= 1 to 9

B= 10 to 99

C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	A	Damselfly Nymphs	A	Blackfly Larvae	A
Mayfly Nymphs	B	Dragonfly Nymphs	—	Aquatic Worms	A
Stonefly Nymphs	—	Crane fly Larvae	—	Midge Larvae	—
Dobsonfly Larvae	A	Beetle Larvae	A	Pouch Snails	A
Caddisfly Larvae	C	Crayfish	—	Leeches	—
Riffle Beetle Adult	A	Scuds	—		
Gill Snails – (open right)	—	Clams	—		
		Sow Bugs	A		
NUMBER OF TAXA	5	NUMBER OF TAXA	3	NUMBER OF TAXA	3
(TIMES) INDEX VALUE	15	(TIMES) INDEX VALUE	6	(TIMES) INDEX VALUE	3
	3		2		1

Cumulative  
Index  
Value

24

Stream Quality Assessment

Excellent (> 22)

Good (17-22)

Fair (11-16)

Poor (<11)

Please Send this form to:

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 Conservation District  
 125 East Erie St.  
 Painesville OH 44077

# Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile \_\_\_\_\_ Stream Chagrin River Sample # \_\_\_\_\_  
 Location Daniels Park  
 County Lake Township/City Willoughby Date 9/21/07 Time 12:15  
 Monitoring Group \_\_\_\_\_  
 Or Individual Grant Elementary Maglasky No. of Participants 6

## Riffle Structure

Width of Riffle 50  
 Water Depth 6 inch  
 Water Temp \_\_\_\_\_ °C or \_\_\_\_\_ °F

## Chemical Analysis

Dissolved O<sub>2</sub> \_\_\_\_\_  
 Acidity (pH) \_\_\_\_\_  
 Salinity (Cl) \_\_\_\_\_  
 Ammonia 2.1 PPM

Coliform sample taken?

Yes ☐ No ☒ # \_\_\_\_\_

Results \_\_\_\_\_

Bed Composition of Riffle (must add up to 100%)

SILT ☒ SAND ☒ GRAVEL ☒ COBBLES ☒ BOULDERS ☒  
 (1/4"-2") (2"-10") (>10")

## Descriptions of Water Conditions:

Clear color less  
odor

## Special Notes:

## MACROINVERTEBRATE TALLY

Estimated Count A= 1 to 9  
 B= 10 to 99  
 C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	<u>A</u>	Damselfly Nymphs		Blackfly Larvae	<u>A</u>
Mayfly Nymphs	<u>A</u>	Dragonfly Nymphs		Aquatic Worms	
Stonefly Nymphs		Cranefly Larvae	<u>A</u>	Midge Larvae	
Dobsonfly Larvae		Beetle Larvae		Pouch Snails	
Caddisfly Larvae	<u>B</u>	Crayfish		Leeches	
Riffle Beetle Adult		Scuds			
Gill Snails - (open right)		Clams			
		Sow Bugs			
NUMBER OF TAXA	<u>3</u>	NUMBER OF TAXA	<u>1</u>	NUMBER OF TAXA	<u>1</u>
(TIMES) INDEX VALUE	<u>9</u>	(TIMES) INDEX VALUE	<u>2</u>	(TIMES) INDEX VALUE	<u>1</u>
3		2		1	

Cumulative  
 Index  
 Value

12

## Stream Quality Assessment

Excellent (> 22)

Good (17-22)

Fair (11-16)

Poor (<11)

Please Send this form to:

Lake County Soil and Water  
 Conservation District  
 125 East Erie St.  
 Painesville OH 44077

# Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile \_\_\_\_\_ Stream Chagrin Sample # \_\_\_\_\_  
 Location Danilek Park  
 County Lake Township/City Willoughby Date 9/21/07 Time 10  
 Monitoring Group \_\_\_\_\_  
 Or Individual Grant Sulik No. of Participants 5

## Riffle Structure

Width of Riffle 50  
 Water Depth \_\_\_\_\_  
 Water Temp \_\_\_\_\_°C or \_\_\_\_\_°F

## Chemical Analysis

Dissolved O<sub>2</sub> \_\_\_\_\_  
 Acidity (pH) \_\_\_\_\_  
 Salinity (Cl) \_\_\_\_\_  
 Ammonia less than 1 PPM

Coliform sample taken?

Yes ☐ No ☐ # \_\_\_\_\_

Results \_\_\_\_\_

Bed Composition of Riffle (must add up to 100%)

SILT ☐ SAND ☐ GRAVEL ☐ COBBLES ☐ BOULDERS ☐  
 (1/4"-2") (2"-10") (>10")

## Descriptions of Water Conditions:

Clear and color less  
no odor

## Special Notes:

## MACROINVERTEBRATE TALLY

## Estimated Count

A= 1 to 9  
 B= 10 to 99  
 C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	<u>A</u>	Damselfly Nymphs		Blackfly Larvae	<u>A</u>
Mayfly Nymphs	<u>B</u>	Dragonfly Nymphs		Aquatic Worms	<u>A</u>
Stonefly Nymphs		Crane fly Larvae	<u>A</u>	Midge Larvae	<u>B</u>
Dobsonfly Larvae	<u>A</u>	Beetle Larvae	<u>A</u>	Pouch Snails	
Caddisfly Larvae	<u>C</u>	Crayfish		Leeches	
Riffle Beetle Adult		Scuds			
Gill Snails - (open right)		Clams			
		Sow Bugs			
NUMBER OF TAXA	<u>4</u>	NUMBER OF TAXA	<u>2</u>	NUMBER OF TAXA	<u>3</u>
(TIMES) INDEX VALUE	<u>12</u>	(TIMES) INDEX VALUE	<u>4</u>	(TIMES) INDEX VALUE	<u>3</u>
	<u>3</u>		<u>2</u>		<u>1</u>

Cumulative  
 Index  
 Value

19

## Stream Quality Assessment

Excellent (> 22)  
 Fair (11-16)

Good (17-22)  
 Poor (<11)

Please Send this form to:

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 Painesville OH 44077



# Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile \_\_\_\_\_ Stream Chagrin River Sample # \_\_\_\_\_  
 Location Daniels Park  
 County Lake Township/City Willoughby Date 9/21/07 Time 11:15  
 Monitoring Group \_\_\_\_\_  
 Or Individual Grant Mrs. Goerge No. of Participants 5

<b>Riffle Structure</b> Width of Riffle <u>50 ft</u> Water Depth <u>6 inches</u> Water Temp _____ °C or _____ °F	<b>Chemical Analysis</b> Dissolved O <sub>2</sub> _____ Acidity (pH) _____ Salinity (Cl) _____ Ammonia <u>&lt; 1 PPM</u>	Coliform sample taken? Yes <input type="checkbox"/> No <input type="checkbox"/> # _____ Results _____
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Bed Composition of Riffle (must add up to 100%)

SILT <input type="checkbox"/>	SAND <input type="checkbox"/>	GRAVEL <input type="checkbox"/>	COBBLES <input type="checkbox"/>	BOULDERS <input type="checkbox"/>
<u>0</u>	<u>20</u>	<u>18</u>	<u>60</u>	<u>2</u>
		(1/4"-2")	(2"-10")	(>10")

<b>Descriptions of Water Conditions:</b> <u>odorless</u> <u>colorless</u> <u>clear</u>	<b>Special Notes:</b> <u>Longnose Dace</u>
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## MACROINVERTEBRATE TALLY

**Estimated Count** A= 1 to 9  
 B= 10 to 99  
 C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae		Damselfly Nymphs		Blackfly Larvae	
Mayfly Nymphs	<u>A</u>	Dragonfly Nymphs		Aquatic Worms	
Stonefly Nymphs		Crane fly Larvae		Midge Larvae	
Dobsonfly Larvae	<u>A</u>	Beetle Larvae	<u>A</u>	Pouch Snails	
Caddisfly Larvae	<u>C</u>	Crayfish		Leeches	
Riffle Beetle Adult		Scuds			
Gill Snails - (open right)		Clams			
		Sow Bugs			
NUMBER OF TAXA	<u>3</u>	NUMBER OF TAXA	<u>1</u>	NUMBER OF TAXA	<u>0</u>
(TIMES) INDEX VALUE	<u>9</u>	(TIMES) INDEX VALUE	<u>2</u>	(TIMES) INDEX VALUE	
3		2		1	

Cumulative Index Value

11

## Stream Quality Assessment

Excellent (> 22)  
 Fair (11-16)

Good (17-22)  
 Poor (<11)

Please Send this form to:

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 125 East Erie St.  
 Painesville OH 44077